**Project Development Phase**

**Model Performance Test**

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| Date | 27 June 2025 |
| Team ID | LTVIP2025TMID35292 |
| Project Name | **TrafficTelligence**: advanced traffic volume estimation with machine learning |
| Maximum Marks | 10 Marks |

**Model Performance Testing:**

Project team shall fill the following information in model performance testing template.

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| **S.No.** | **Parameter** | **Values** | **Screenshot** |
|  | Metrics | **Regression Model:** MAE - , MSE - , RMSE - , R2 score -  **Classification Model:** Confusion Matrix - , Accuray Score- & Classification Report - | r2\_score for XGBoost Regressor |
|  | Tune the Model | Hyperparameter Tuning - GridSearchCV with parameters:  n\_estimators, max\_depth, learning\_rate, subsample Validation Method - K-Fold Cross-Validation (K=5) |  |